

Data Path : Z:\HPCHEM1\BNA F\DATA\BF022317\  
 Data File : BF093135.D  
 Acq On : 24 Feb 2017 7:25  
 Operator : SJ/MA  
 Sample : I1948-06  
 Misc :  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP23-24-COMP17

Quant Time: Feb 24 07:57:22 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Feb 17 17:31:55 2017  
 Response via : Initial Calibration

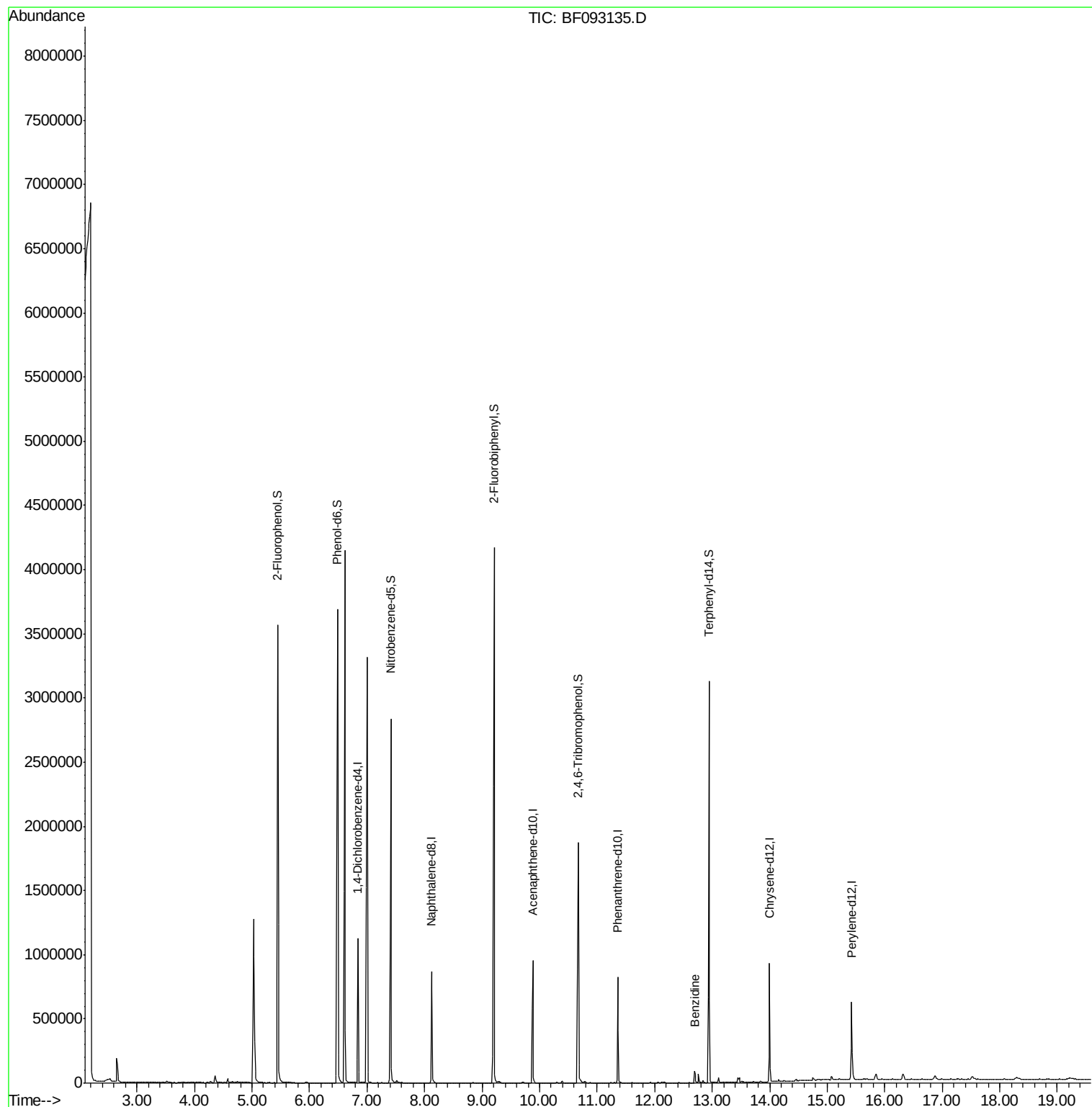
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)     |
|-----------------------------|-------|------|----------|--------|-------|--------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.84  | 152  | 161158   | 20.00  | ng    | -0.01        |
| 21) Naphthalene-d8          | 8.12  | 136  | 565963   | 20.00  | ng    | -0.02        |
| 38) Acenaphthene-d10        | 9.88  | 164  | 232304   | 20.00  | ng    | -0.01        |
| 63) Phenanthrene-d10        | 11.36 | 188  | 353284   | 20.00  | ng    | -0.02        |
| 75) Chrysene-d12            | 14.00 | 240  | 315152   | 20.00  | ng    | -0.02        |
| 86) Perylene-d12            | 15.43 | 264  | 257429   | 20.00  | ng    | -0.02        |
| System Monitoring Compounds |       |      |          |        |       |              |
| 5) 2-Fluorophenol           | 5.45  | 112  | 1130692  | 120.37 | ng    | 0.00         |
| 7) Phenol-d6                | 6.49  | 99   | 1443998  | 119.47 | ng    | 0.00         |
| 23) Nitrobenzene-d5         | 7.41  | 82   | 979876   | 96.41  | ng    | -0.01        |
| 41) 2,4,6-Tribromophenol    | 10.67 | 330  | 242735   | 144.47 | ng    | -0.01        |
| 44) 2-Fluorobiphenyl        | 9.21  | 172  | 1608340  | 125.43 | ng    | -0.01        |
| 78) Terphenyl-d14           | 12.94 | 244  | 993028   | 74.04  | ng    | -0.02        |
| Target Compounds            |       |      |          |        |       |              |
| 76) Benzidine               | 12.69 | 184  | 52146    | 3.88   | ng    | Qvalue<br>97 |

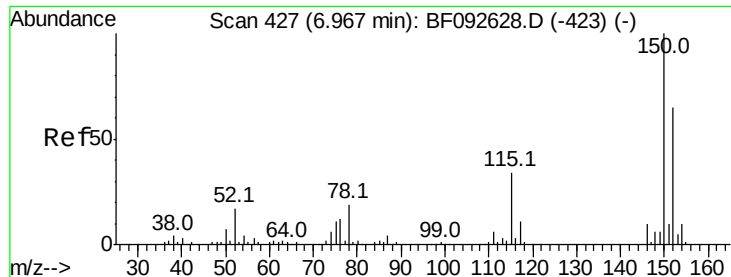
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration



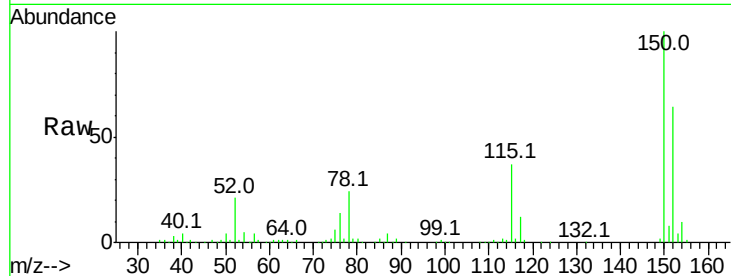


#1

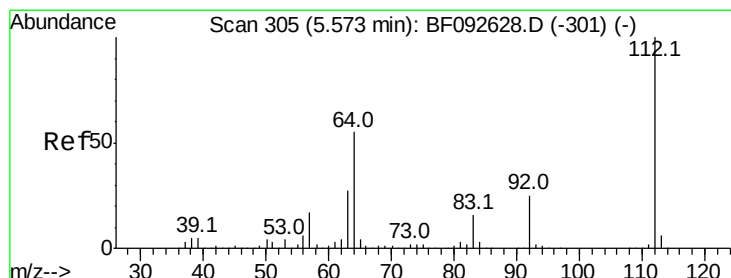
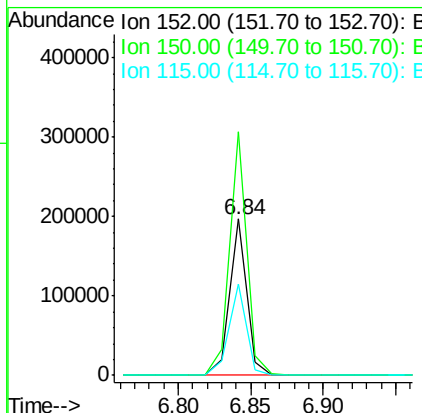
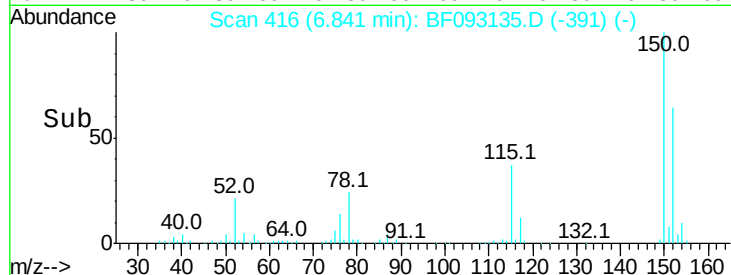
1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.84 min Scan# 416  
 Delta R.T. -0.01 min  
 Lab File: BF093135.D  
 Acq: 24 Feb 2017 7:25

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP23-24-COMP17

Tot Ion:152 Resp: 161158  
 Ion Ratio Lower Upper  
 152 100  
 150 155.7 124.9 187.3  
 115 58.1 46.0 69.0



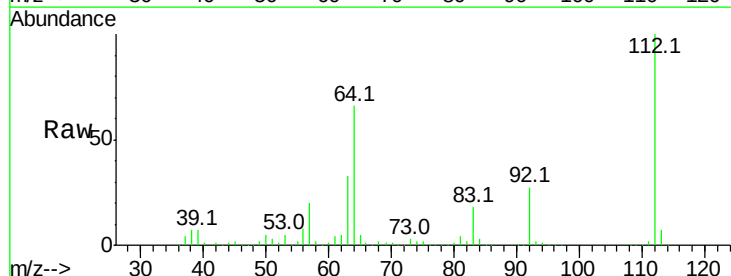
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



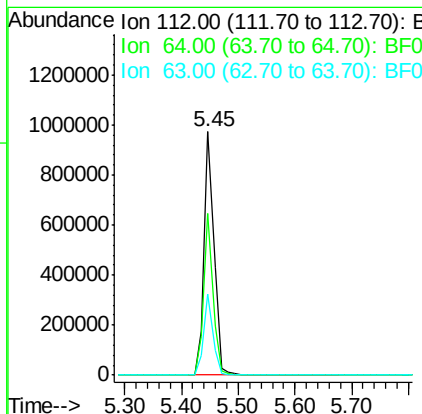
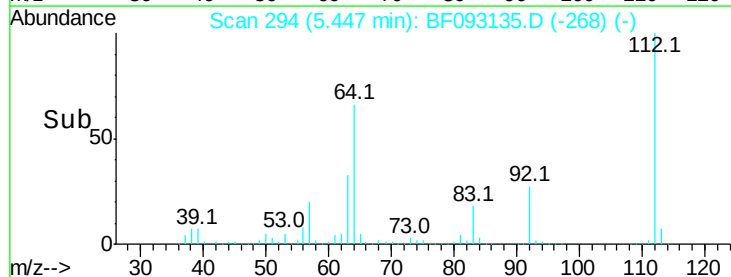
#5

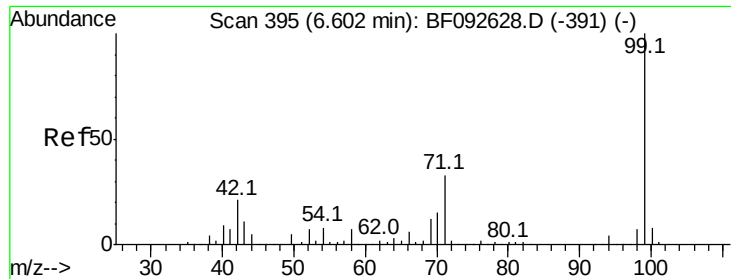
2-Fluorophenol  
 Concen: 120.37 ng  
 RT: 5.45 min Scan# 294  
 Delta R.T. -0.00 min  
 Lab File: BF093135.D  
 Acq: 24 Feb 2017 7:25

Tgt Ion:112 Resp: 1130692  
 Ion Ratio Lower Upper  
 112 100  
 64 66.3 46.1 69.1  
 63 33.4 23.8 35.6



Abundance Ion 112.00 (111.70 to 112.70): E  
 Ion 64.00 (63.70 to 64.70): BF0  
 Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 119.47 ng

RT: 6.49 min Scan# 385

Delta R.T. -0.00 min

Lab File: BF093135.D

Acq: 24 Feb 2017 7:25

Instrument :

BNA\_F

ClientSampleId :

TP23-24-COMP17

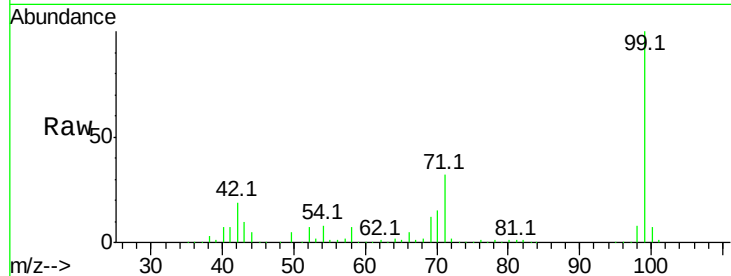
Tot Ion: 99 Resp: 1443998

Ion Ratio Lower Upper

99 100

42 19.3 15.6 23.4

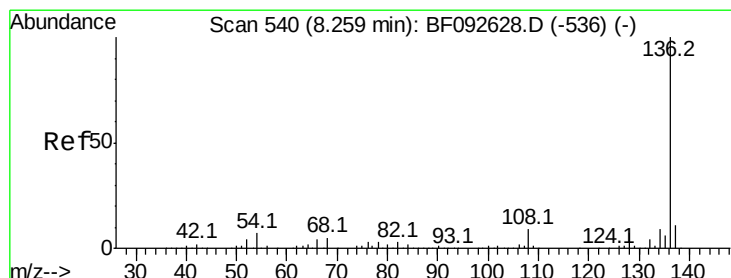
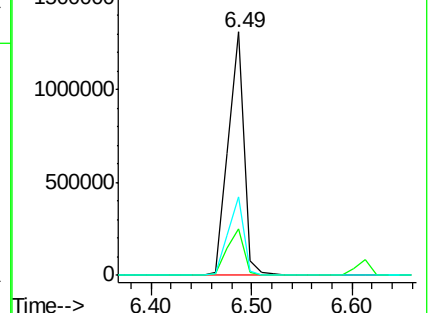
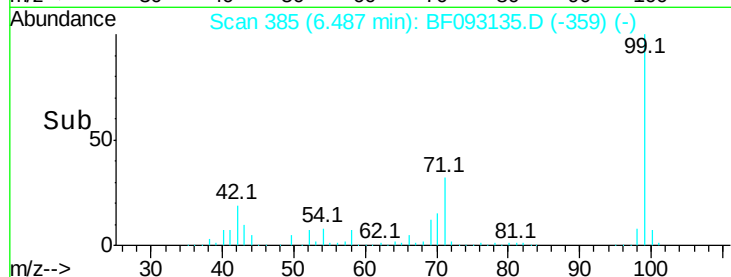
71 32.3 27.5 41.3



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.12 min Scan# 528

Delta R.T. -0.02 min

Lab File: BF093135.D

Acq: 24 Feb 2017 7:25

Tgt Ion: 136 Resp: 565963

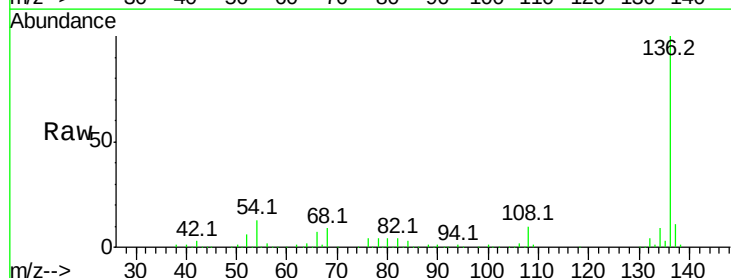
Ion Ratio Lower Upper

136 100

137 11.1 8.4 12.6

54 13.3 4.5 6.7#

68 9.1 3.6 5.4#

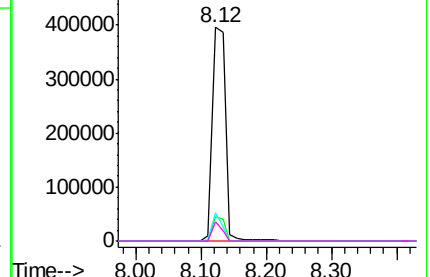
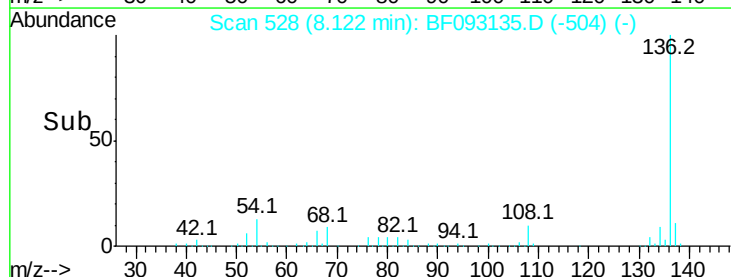


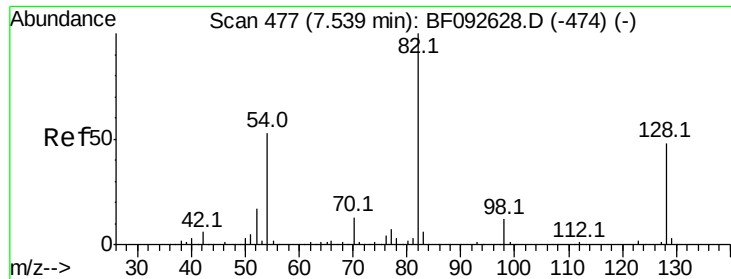
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

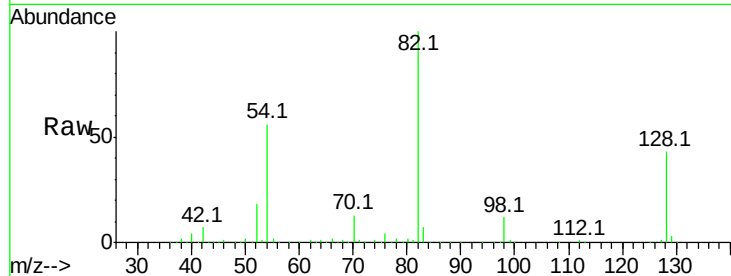




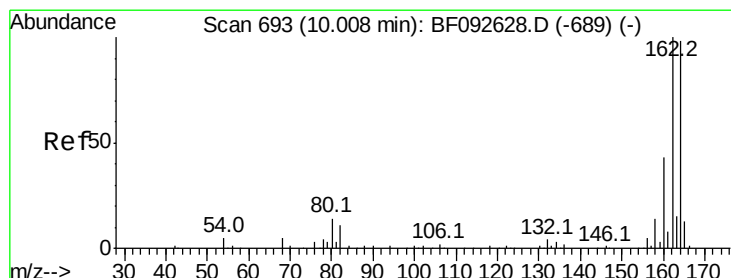
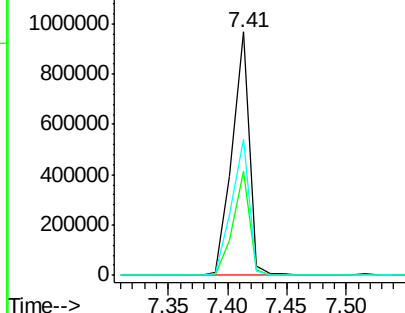
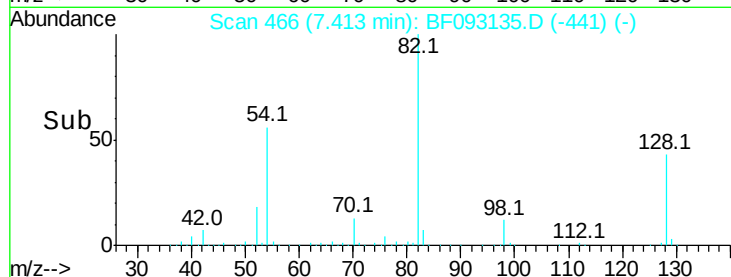
#23  
 Nitrobenzene-d5  
 Concen: 96.41 ng  
 RT: 7.41 min Scan# 466  
 Delta R.T. -0.01 min  
 Lab File: BF093135.D  
 Acq: 24 Feb 2017 7:25

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP23-24-COMP17

| Tot Ion   | 82    | Resp  | 979876 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 42.8  | 34.6  | 52.0   |
| 54        | 56.1  | 39.5  | 59.3   |

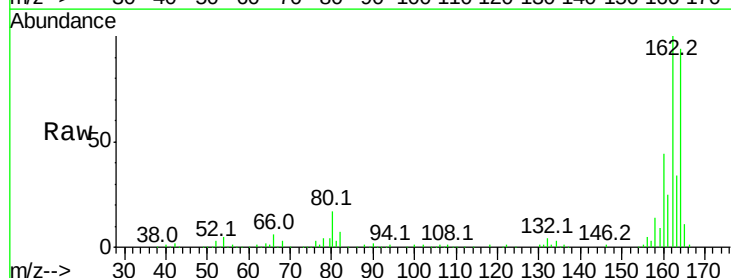


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): B  
 Ion 54.00 (53.70 to 54.70): BF0

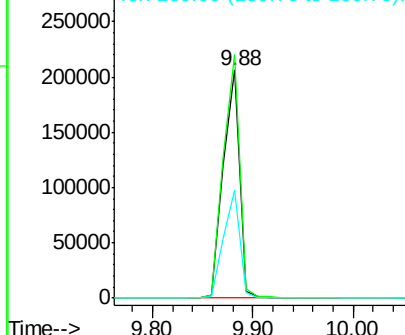
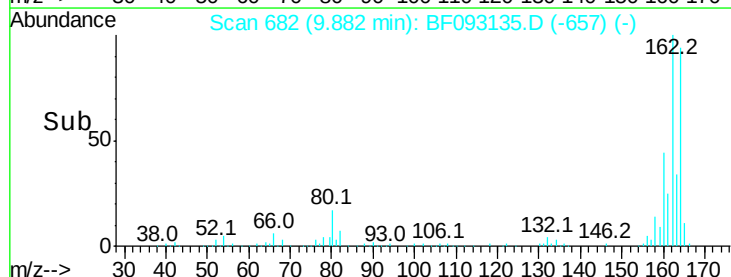


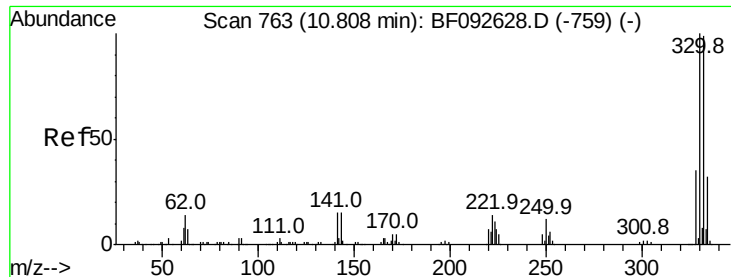
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.88 min Scan# 682  
 Delta R.T. -0.01 min  
 Lab File: BF093135.D  
 Acq: 24 Feb 2017 7:25

| Tgt Ion   | 164   | Resp  | 232304 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 106.7 | 80.2  | 120.2  |
| 160       | 47.3  | 36.9  | 55.3   |



Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

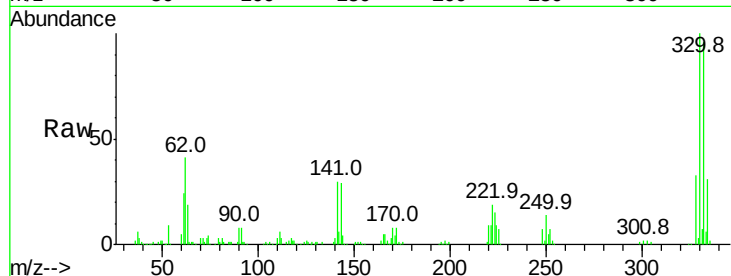




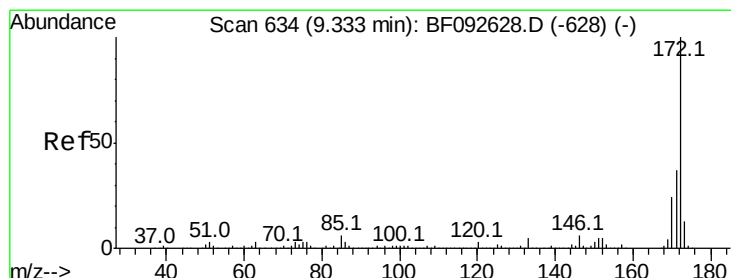
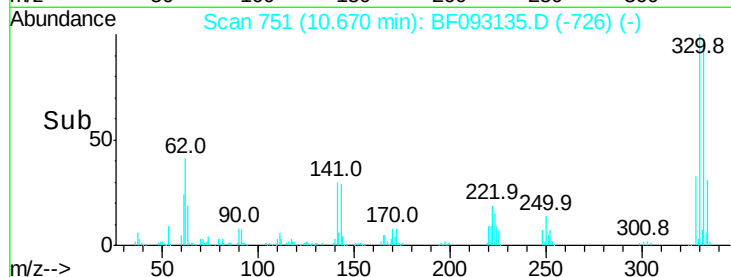
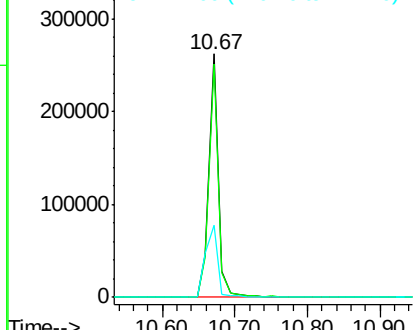
#41  
 2,4,6-Tribromophenol  
 Concen: 144.47 ng  
 RT: 10.67 min Scan# 751  
 Delta R.T. -0.01 min  
 Lab File: BF093135.D  
 Acq: 24 Feb 2017 7:25

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP23-24-COMP17

Tot Ion:330 Resp: 242735  
 Ion Ratio Lower Upper  
 330 100  
 332 95.3 77.4 116.2  
 141 38.2 34.1 51.1

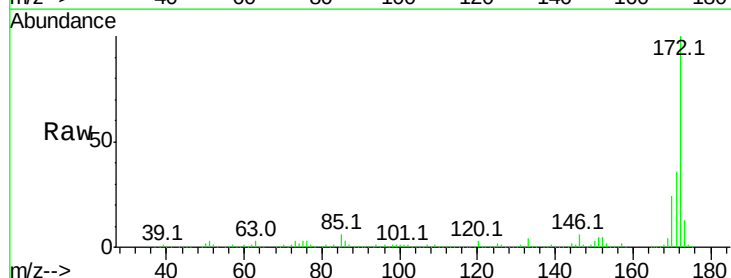


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

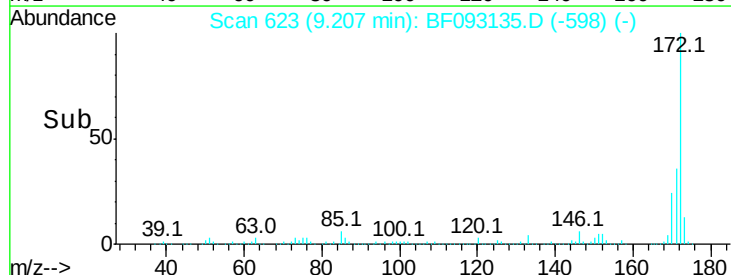
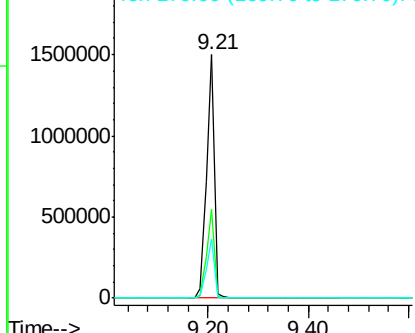


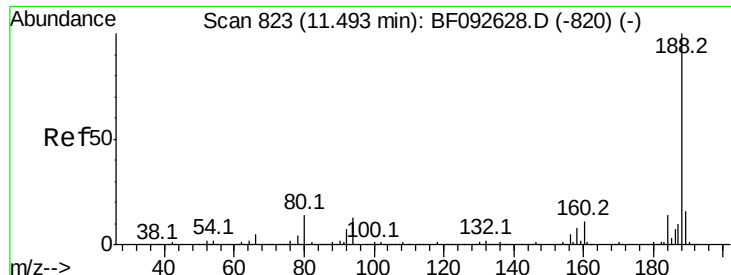
#44  
 2-Fluorobiphenyl  
 Concen: 125.43 ng  
 RT: 9.21 min Scan# 623  
 Delta R.T. -0.01 min  
 Lab File: BF093135.D  
 Acq: 24 Feb 2017 7:25

Tgt Ion:172 Resp: 1608340  
 Ion Ratio Lower Upper  
 172 100  
 171 36.5 29.4 44.0  
 170 24.2 20.2 30.4



Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

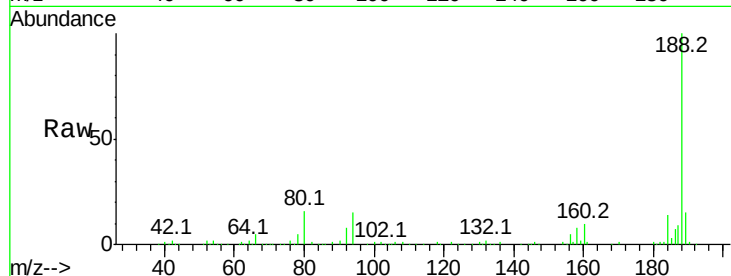




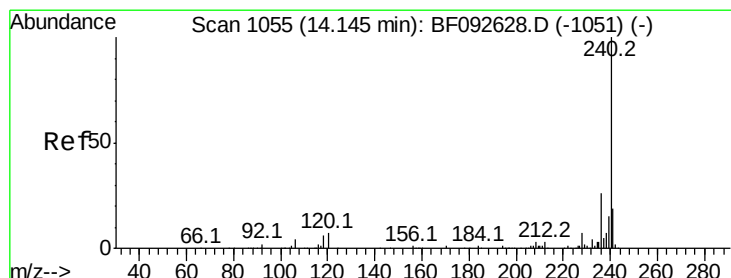
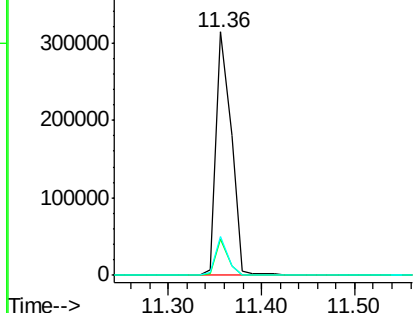
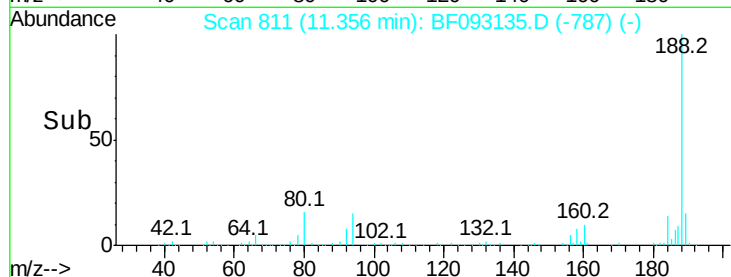
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.36 min Scan# 811  
Delta R.T. -0.02 min  
Lab File: BF093135.D  
Acq: 24 Feb 2017 7:25

Instrument :  
BNA\_F  
ClientSampleId :  
TP23-24-COMP17

Tot Ion:188 Resp: 353284  
Ion Ratio Lower Upper  
188 100  
94 15.0 10.0 15.0  
80 16.0 11.2 16.8

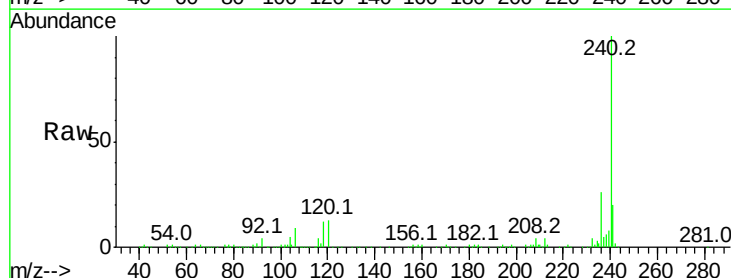


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

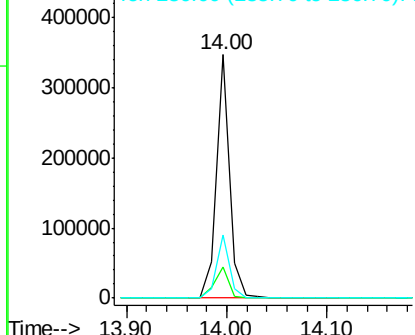
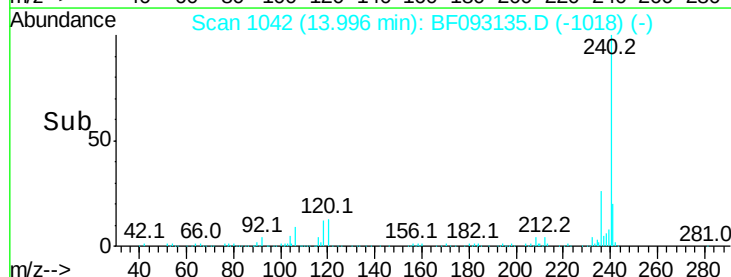


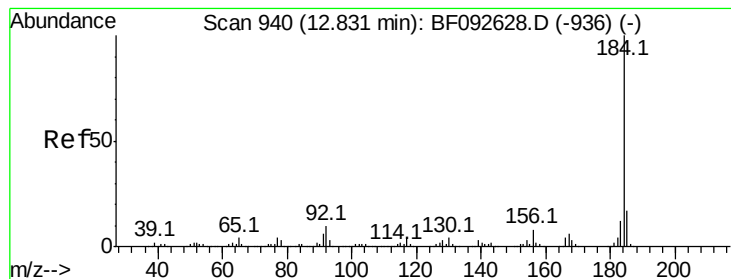
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 14.00 min Scan# 1042  
Delta R.T. -0.02 min  
Lab File: BF093135.D  
Acq: 24 Feb 2017 7:25

Tgt Ion:240 Resp: 315152  
Ion Ratio Lower Upper  
240 100  
120 12.9 12.9 19.3  
236 25.8 20.9 31.3



Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E





#76

Benzidine

Concen: 3.88 ng

RT: 12.69 min Scan# 928

Delta R.T. -0.02 min

Lab File: BF093135.D

Acq: 24 Feb 2017 7:25

Instrument :

BNA\_F

ClientSampleId :

TP23-24-COMP17

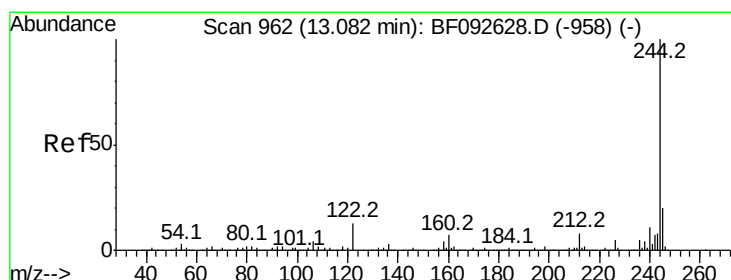
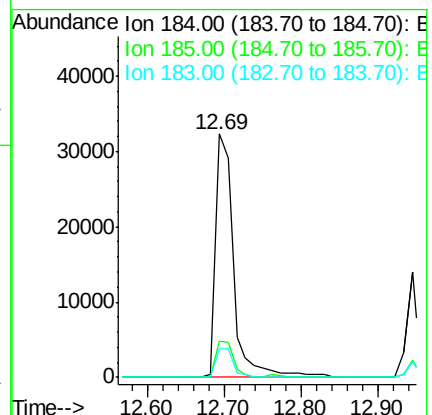
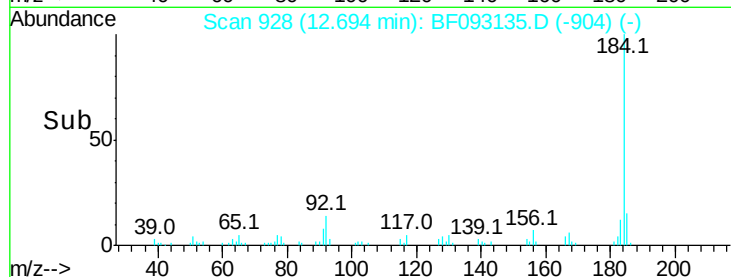
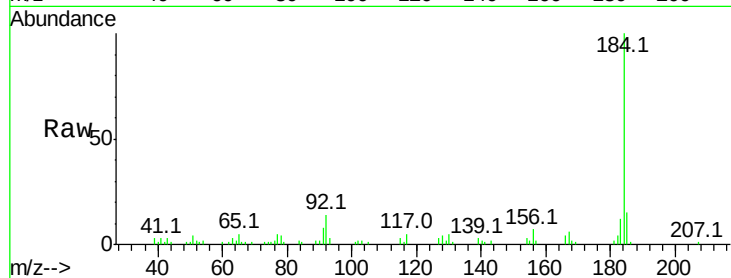
Tot Ion:184 Resp: 52146

Ion Ratio Lower Upper

184 100

185 14.7 13.4 20.0

183 11.8 9.2 13.8



#78

Terphenyl-d14

Concen: 74.04 ng

RT: 12.94 min Scan# 950

Delta R.T. -0.02 min

Lab File: BF093135.D

Acq: 24 Feb 2017 7:25

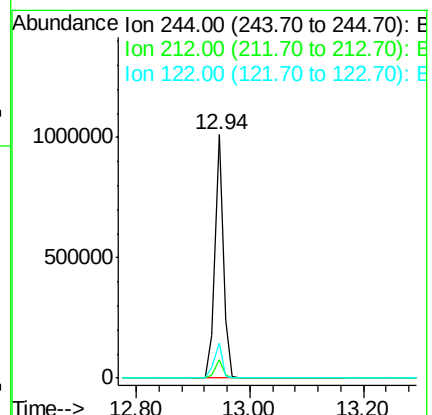
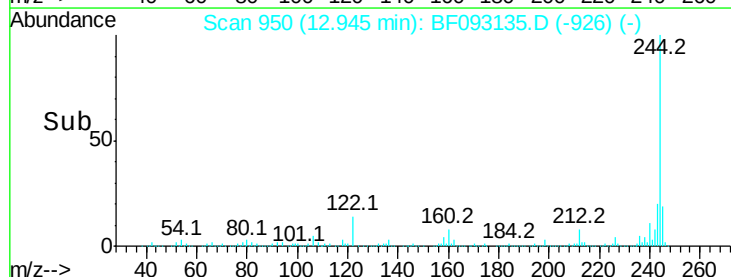
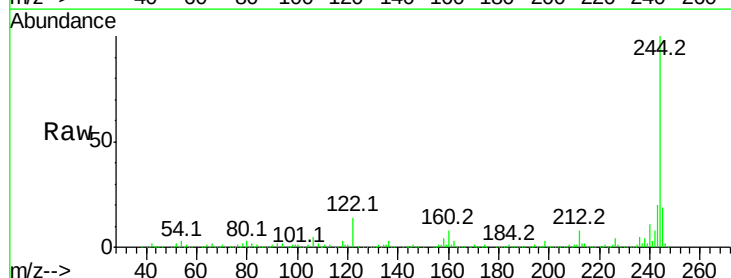
Tgt Ion:244 Resp: 993028

Ion Ratio Lower Upper

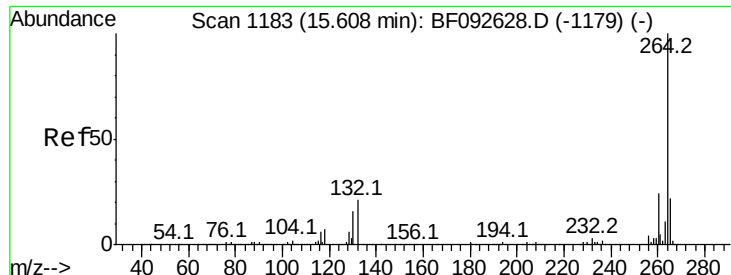
244 100

212 7.7 6.2 9.2

122 14.3 11.4 17.2



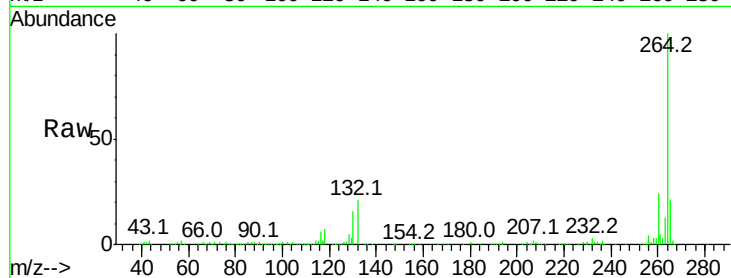




#86  
 Pervlene-d12  
 Concen: 20.00 ng  
 RT: 15.43 min Scan# 1167  
 Delta R.T. -0.02 min  
 Lab File: BF093135.D  
 Acq: 24 Feb 2017 7:25

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP23-24-COMP17

Tot Ion: 264 Resp: 257429  
 Ion Ratio Lower Upper  
 264 100  
 260 23.7 19.2 28.8  
 265 21.1 17.4 26.0



Abundance Ion 264.00 (263.70 to 264.70): E  
 Ion 260.00 (259.70 to 260.70): E  
 Ion 265.00 (264.70 to 265.70): E

